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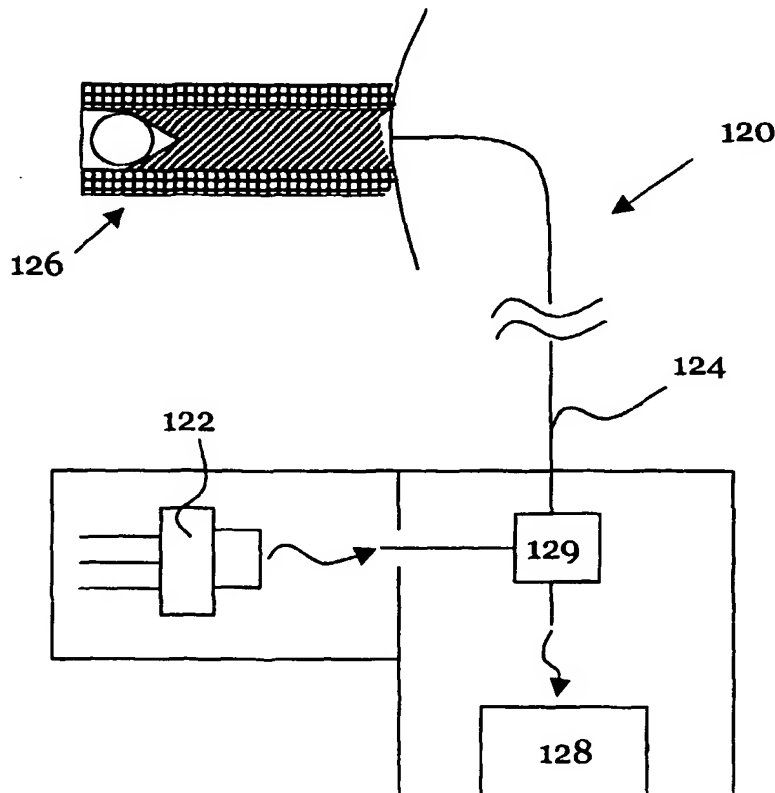
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- (21) Internationales Aktenzeichen: PCT/EP2003/012896 (72) Erfinder; und (75) Erfinder/Anmelder (nur für US): SCHWEIGER, Gustav [DE/DE]; Eichendorffstrasse 15, 47057 Duisburg (DE).
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(54) Title: MEASURING DEVICE

(54) Bezeichnung: MESSVORRICHTUNG



(57) Abstract: Disclosed is a device for measuring physical parameters, particularly temperatures, in which light of a light source is coupled into and out of an optical resonator that is embodied as a microparticle by means of one or several optical waveguides. In order to optically and mechanically couple the resonator to an optical waveguide in the most favorable manner possible, the resonator is disposed within a recess that is formed on the optical waveguide, is retained there in a mechanical manner, and is optically coupled to the optical waveguide. The inventive optical waveguide can be configured as a hollow guide. Alternatively, a cuneiform measuring tip is provided, comprising two converging webs, between which the resonator is arranged within a front portion of the measuring tip, said webs being made of light-conducting material or encompassing a part made of light-conducting material while being coupled to at least one light-conducting fiber that is connected to the light source.

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